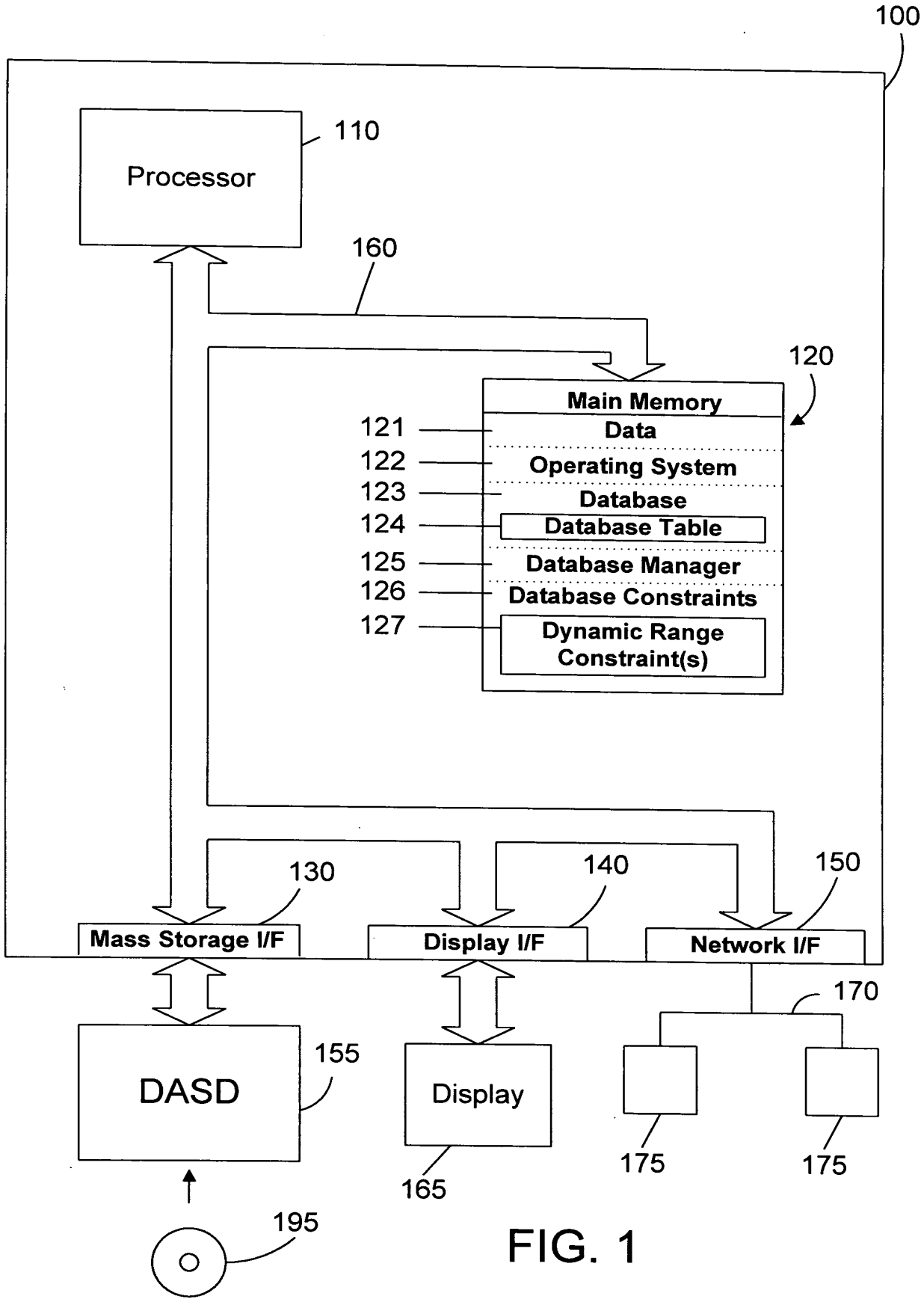
100
Processor
110
160
120
Main Memory
121
Data
122
Operating System
123
Database
124
Database Table
125
Database Manager
126
Database Constraints
127
Dynamic Range Constraint(s)
130
140
150
Mass Storage I/F
Display I/F
Network I/F
170
DASD
155
Display
165
175
175
195

FIG. 1

Table T

	C1	C2	C3	C4
	Part No.	Supplier	Price	Quantity
1	02-0493	GOF	12.45	3
2	09-6798	WSX	4.59	74
3	07-1158	STC	7.92	10
N-1	05-2229	LAR	8.55	123
N	03-7691	FCJ	2.71	46

FIG. 2

$1 < C3 < 25$

FIG. 3 Prior Art

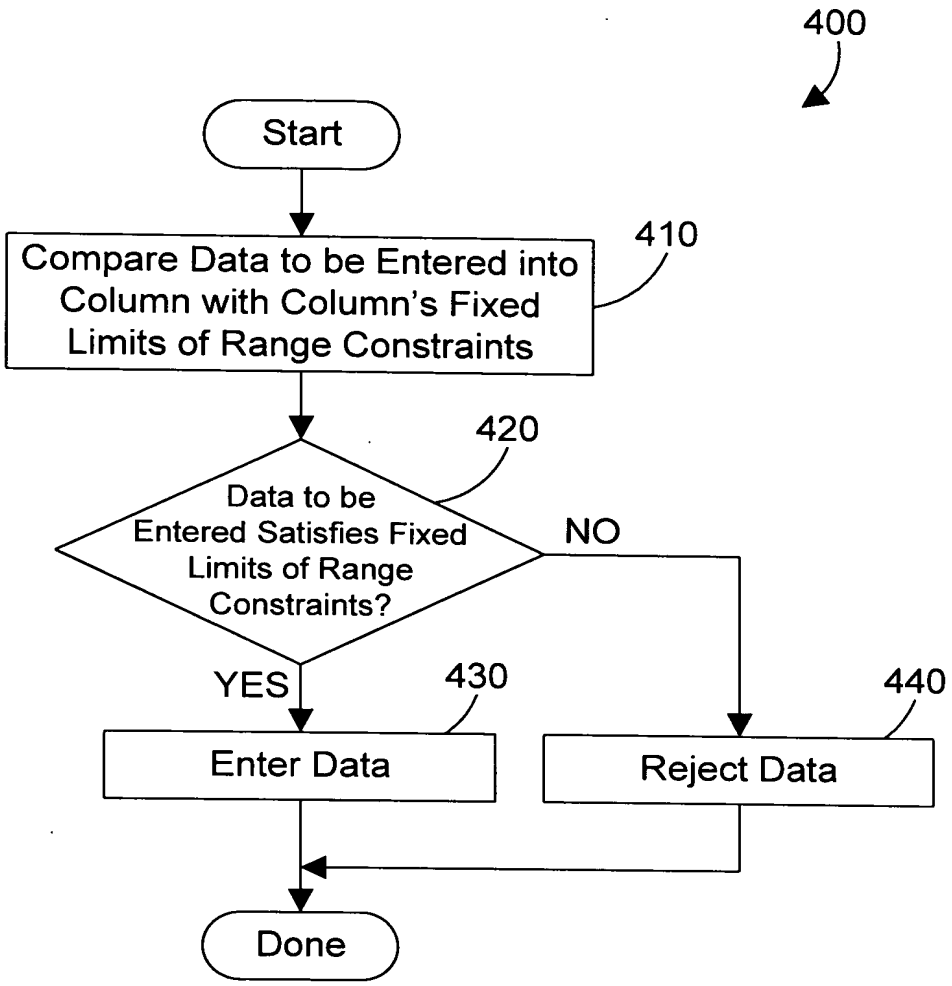

FIG. 4 Prior Art

0.1*(MEAN C3) < C3 < 2.5*(MEAN C3)

FIG. 5

If (MEAN C3) = 10.00,
1.00 < C3 < 25.00

FIG. 6

If (MEAN C3) = 15.00,
1.50 < C3 < 37.50

FIG. 7

0 < C4 < 2*(MAX C4)

FIG. 8

If (MAX C4) = 150.00,
0 < C4 < 300

FIG. 9

If (MAX C4) = 565,
0 < C4 < 1,130

FIG. 10

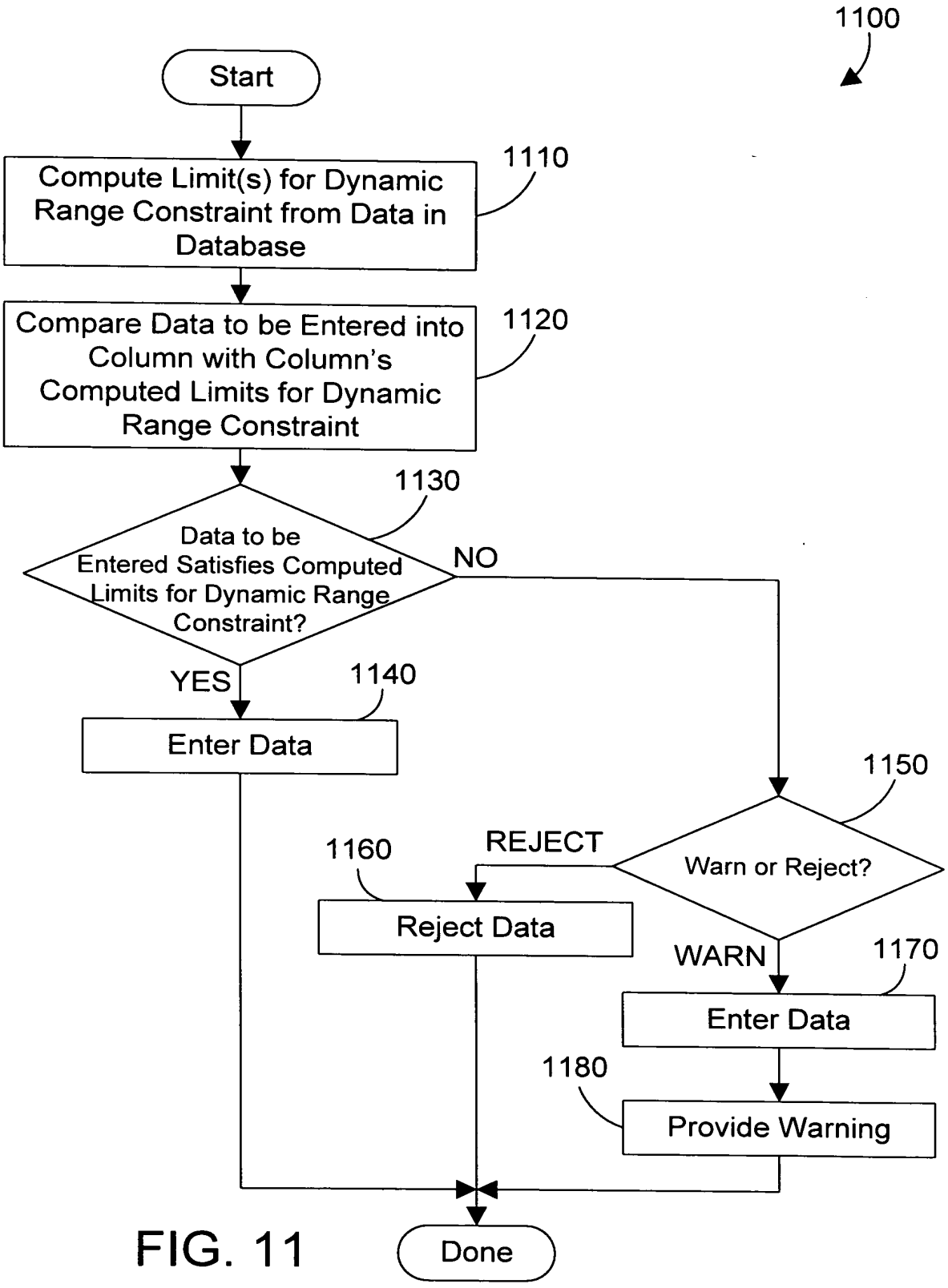
1100
Start
Compute Limit(s) for Dynamic Range Constraint from Data in Database
1110
Compare Data to be Entered into Column with Column's Computed Limits for Dynamic Range Constraint
1120
1130
Data to be Entered Satisfies Computed Limits for Dynamic Range Constraint?
NO
YES
1140
Enter Data
1150
Warn or Reject?
REJECT
1160
Reject Data
WARN
1170
Enter Data
1180
Provide Warning
Done

FIG. 11

Table S

	C1	C2	C3	C4	C5
	Part No.	Supplier	Price	Cost	Quantity
1	02-0493	GOF	12.45	8.23	3
2	09-6798	WSX	4.59	2.68	74
3	07-1158	STC	7.92	5.14	10
N-1	05-2229	LAR	8.55	6.02	123
N	03-7691	FCJ	2.71	1.85	46

FIG. 12

$0 < C4 < (MAX\ C3)$

FIG. 13

If (MAX C3) = 18.45,
$0 < C4 < 18.45$

FIG. 14

If (MAX C3) = 78.20,
$0 < C4 < 78.20$

FIG. 15